

AMENDMENTS

IN THE CLAIMS:

Please cancel claims 9, 13-20 and 24.

Please add new claims 25-34 as follows:

25. (New) A purified breast tissue-specific polynucleotide comprising a sequence selected from the group consisting of SEQ ID NOS:1-14, complete complements of SEQ ID NOS:1-14 and degenerate coding sequences thereof.

26. (New) The polynucleotide of claim 25, wherein the polynucleotide encodes a protein which comprises an amino acid sequence selected from the group consisting of SEQ ID NO:17, complete complements of SEQ ID NO:17 and degenerate coding sequences thereof.

27. (New) The polynucleotide of claim 25, wherein the polynucleotide comprise DNA having a sequence selected from the group consisting of SEQ ID NO:14, complete complements of SEQ ID NO:14 and degenerate coding sequences thereof.

28. (New) The polynucleotide of claim 25, wherein the polynucleotide is produced by recombinant techniques.

29. (New) The polynucleotide of claim 25, wherein the polynucleotide is produced by synthetic techniques.

30. (New) The polynucleotide of claim 25, wherein the polynucleotide comprises a sequence encoding at least one breast-tissue specific epitope.

31. (New) The polynucleotide of claim 25, wherein the polynucleotide is attached to a solid phase.

32. (New) A recombinant expression system comprising a nucleic acid sequence that includes an open reading frame operably linked to a control sequence compatible with a desired host, wherein the nucleic acid sequence is selected from the group consisting of:

SEQ ID NOS:1-14, complete complements of SEQ ID NOS:1-14 and degenerate coding sequences thereof.

33. (New) A cell transfected with the recombinant expression system of claim 32.

34. (New) A method for producing a breast tissue-specific polypeptide comprising at least one epitope, said method comprising:

incubating host cells that have been transfected with an expression vector containing a polynucleotide sequence encoding a polypeptide having an amino acid sequence selected from the group consisting of SEQ ID NOS:1-14, complete complements of SEQ ID NOS: 1-14 and degenerate coding sequences thereof.